Description

- Sensor/actuator box
- Connection methods: M12-jack, A-standard and pluggable plug-in connector for trunk cable
- slots: 4

General characteristics

Connection method, trunk cable	pluggable plug-in connector 180°
Connection method, sensor / actuator	M12-jack, A-standard
Number of slots	4
Number of poles	5
Degree of protection	IP65 / IP67 / IP69K
Temperature range	-30 °C to +80 °C (-22 °F to +176 °F)

Electrical properties

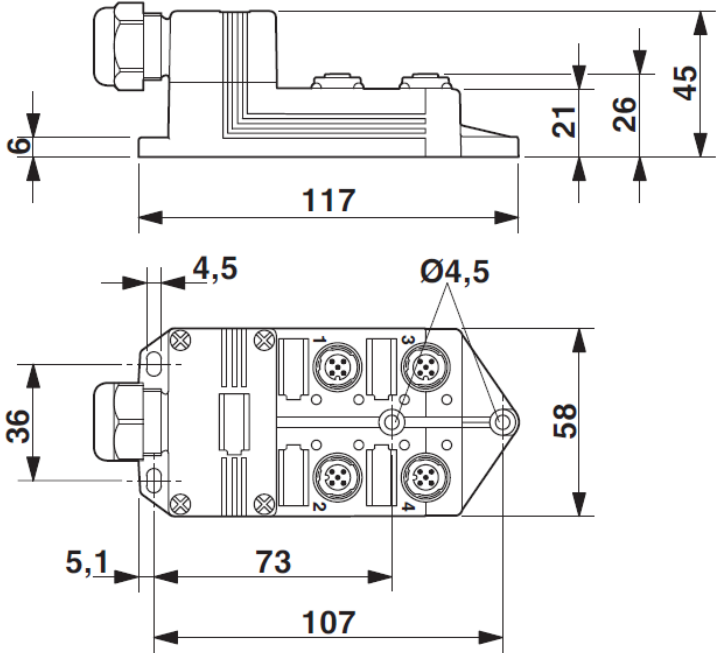|	
Nominal voltage U_N	120 V
Current carrying capacity per path	2 A
Total current (w/o potential separation)	1x10 A
Total rated current (with potential separation)	2x8 A

Mechanical properties

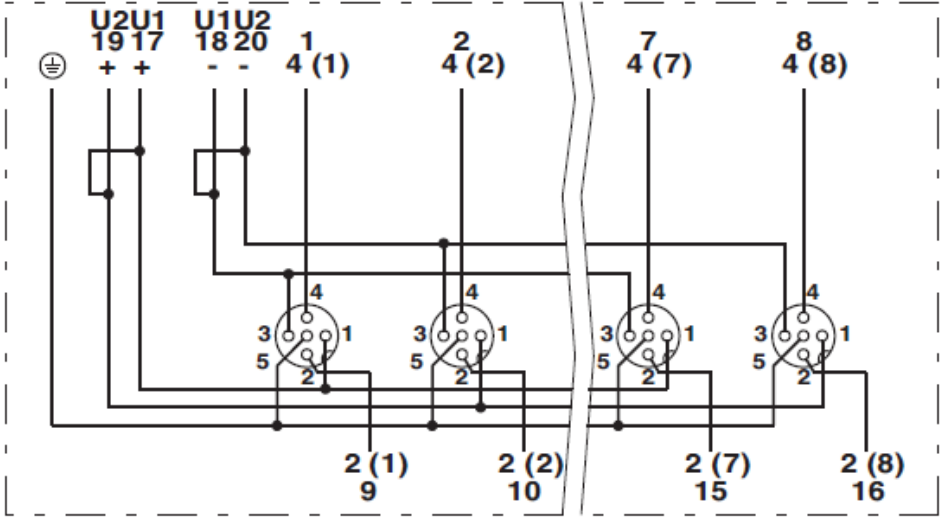|	
Inflammability class acc. to UL 94	V0
Material, housing	PBT
Material, potting	PUR
Material, contact	Cu-alloy
Material, contact surface	Gold-plated
Material, contact carrier	PA
Material of threaded sleeve	Zinc die-cast
Material of threaded sleeve surface	Nickel-plated
Material, O-ring	NBR
Trunk cable, Termination cross section	AWG16 to AWG26
Trunk cable, Outer diameter, cable	7 mm to 12 mm
Tightening torque screw cover plate	0.35 Nm
Tightening torque screw nut coupler	2.5 Nm
Tightening torque slot s/a cable	0.4 Nm

Technical drawing

Circuit diagram

Example:
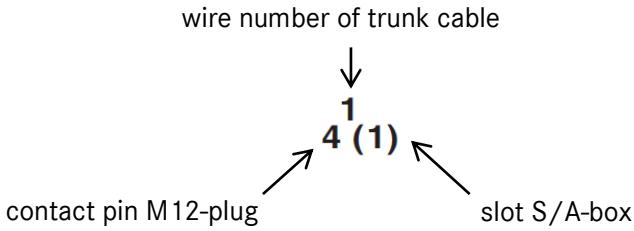
wire number of trunk cable

↓

1
4 (1)

contact pin M12-plug ↙   ↘ slot S/A-box

Schema drawings
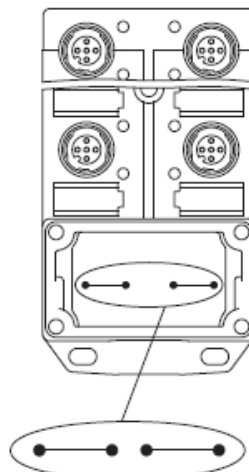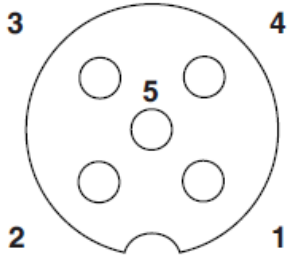
Potential U_{N1} and U_{N2} joint.
Potential order:
$U_{N1} = U_{N2}$ = slots 1,2,3,4
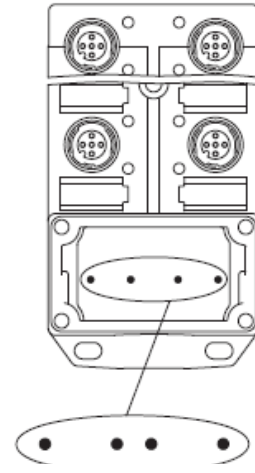
Potential separated. Potential order:
U_{N1} =slots 1, 3 and
U_{N2} = slots 2, 4

Pin assignment

Slot/ position = Wire colour or connection

$1 / 4$ (A) = 1 / 4

$1 / 2$ (B) = 1 / 2

$2 / 4$ (A) = 2 / 4

$2 / 2$ (B) = 2 / 2

$3 / 4$ (A) = 3 / 4

$3 / 2$ (B) = 3 / 2

$4 / 4$ (A) = 4 / 4

$4 / 2$ (B) = 4 / 2

$1\text{-}4 / 1$ (+ 120 V) = U_N

$1\text{-}4 / 3$ (0 V) = 0 V

$1\text{-}4 / 5$ (PE) = PE

Application range

Automation, industrial machinery and plant engineering

Note

Photographs are not true to scale and do not represent detailed images of the respective products.